

CLAIMS

What is claimed is:

1. A thin film transistor (TFT) comprising a lightly doped drain (LDD) region or offset region, wherein the thin film transistor is formed so that primary crystal grain boundaries of a polysilicon substrate are not positioned in the LDD or offset region.
2. The thin film transistor according to claim 1, wherein a width of an activation layer including the LDD region or offset region is shorter than a distance between the primary crystal grain boundaries.
3. The thin film transistor according to claim 1, wherein the polysilicon substrate is formed by a sequential lateral solidification (SLS) method.
4. The thin film transistor according to claim 1, wherein the thin film transistor is used in an LCD (liquid crystal display) or organic EL (electroluminescent) device.
5. The thin film transistor according to claim 1, wherein the primary crystal grain boundaries are perpendicular to a current direction between active channel regions of the thin film transistor.
6. The thin film transistor according to claim 1, wherein the primary crystal grain boundaries are inclined to a current direction between active channel regions of the thin film transistor at an angle of $-45^{\circ} \leq \Theta \leq 45^{\circ}$.
7. A flat panel display device comprising:
a thin film transistor comprising:
an LDD region or offset region,
wherein the thin film transistor is formed so that primary crystal grain boundaries of a polysilicon substrate are not positioned in the LDD or offset region.
8. The flat panel display device according to claim 7, wherein a width of an

activation layer including the LDD region or offset region is shorter than a distance between the primary crystal grain boundaries.

9. The flat panel display device according to claim 7, wherein the polysilicon substrate is formed by a sequential lateral solidification (SLS) method.

10. The flat panel display device according to claim 7, wherein the thin film transistor is used in an LCD (liquid crystal display) or organic EL (electroluminescent) device.

11. The flat panel display device according to claim 7, wherein the primary crystal grain boundaries are perpendicular to a current direction between active channel regions of the thin film transistor.

12. The flat panel display device according to claim 7, wherein the primary crystal grain boundaries are inclined to a current direction between active channel regions of the thin film transistor at an angle of $-45^{\circ} \leq \theta \leq 45^{\circ}$.